70 Series Double C Face

ENCLOSURES

The IP Code, International Protection Marking, IEC Standard 60529, classifies and rates the degree of protection provided against the intrusion of dust and water by electrical enclosures. This rating system is published by the International Electromechanical Commission (IEC).

DINGS VS. STEARNS® ENCLOSURE RATINGS

Dings Drip-proof Enclosure = IP43 Standard / Stearns® Drip-proof Enclosure = IP23 Standard

Dings Waterproof Dust-tight = IP56 Standard / Stearns® Waterproof Dust-tight = IP54 Standard

First Digit: Solid Particle Protection

The first digit indicates the level of protection that the enclosure provides against access to hazardous parts (e.g., electrical conductors, moving parts) and the ingress of solid foreign objects.

Level	Object size protected against	Effective against
2	>12.5mm	Fingers or similar objects.
4	>1mm	Most wires, screws, etc.
5	Dust Protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact.
6	Dust Tight	No ingress of dust; complete protection against contact.

Second Digit: Liquids

Protection of the equipment inside the enclosure against harmful ingress of water.

Level	Protected against	Testing for	Details
3	Spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.	Test duration: 5 minutes Water volume: 0.7 litres per minute Pressure: 80–100 kPa
4	Splashing of water	Water splashing against the enclosure from any direction shall have no harmful effect.	Test duration: 5 minutes Water volume: 10 litres per minute Pressure: 80–100 kPa
5	Water jets	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.	Test duration: at least 15 minutes Water volume: 12.5 litres per minute Pressure: 30 kPa at distance of 3 m
6	Powerful water jets	Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects.	Test duration: at least 3 minutes Water volume: 100 litres per minute Pressure: 100 kPa at distance of 3 m

BRAKE TESTING SUMMARY

Dings design and test engineers have performed a series of brake performance tests in order to refine the design. Tests included cycle tests to achieve maximum brake life and torque tests under load conditions to determine friction disc wear rate.

TEST DETAILS

- Quantity of brakes tested : over 100
- Cycle test: 25 lb-ft, 50 lb-ft and 75 lb-ft brakes
- Torque test : 25 lb-ft and 75 lb-ft brakes tested for friction disc life at 100% capacity

TEST RESULTS

- Cycle test: 3 million cycles with ZERO failures
- Torque test:

# Friction discs per brake	1	2	3	4
Average cycles before reaching max air gap	60K	50K	40K	40K
Average number of air gap adjustments before friction disc replacement	3	5	10	15

NOTE: Your wear rate may differ due to change in speed, load, over-hanging load and cycle rate.